


- 
6. The well shall not be completed for production from either the Green River or Wasatch formations in order to avoid conflict with the spacing order in Cause No. 127-3.

DEC 07 1989

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

(Other instructions on reverse side)

5. Lease Designation and Serial No.  
**ML-41862**6. If Indian, Allottee or Tribe Name  
---7. Unit Agreement Name  
---8. Farm or Lease Name  
**Soccer State**9. Well No.  
**32-5**10. Field and Pool, or Wildcat  
**Horseshoe Bend (L207)**11. Sec., T., R., M., or Blk. and Survey or Area  
**32-16S-21E**

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. Type of Well

Oil Well ☐Gas Well ☒

Other

Single Zone ☒Multiple Zone ☐

2. Name of Operator

TXO Production Corp. Attn: C.K. Curlee

3. Address of Operator

1800 Lincoln Center Bldg. Denver, CO 80264

4. Location of Well (Report location clearly and in accordance with any State requirements.)\*

At surface

(NW/NW) Sec. 32-T6S-R21E, Uintah County, Utah

At proposed prod. zone

(661' FWL, 844' FNL)

14. Distance in miles and direction from nearest town or post office\*

27.5 miles northwest of Vernal

12. County or Parrish 13. State  
Uintah UT

15. Distance from proposed\* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any)

476'

16. No. of acres in lease  
32017. No. of acres assigned to this well  
40

18. Distance from proposed location\* to nearest well, drilling, completed, or applied for, on this lease, ft.

2300'

19. Proposed depth  
3850' *Green River*20. Rotary or cable tools  
Rotary

21. Elevations (Show whether DF, RT, GR, etc.)

4729' G.R.

22. Approx. date work will start\*  
Dec. 18, 1989

23.

## PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
12 1/4"	8 5/8"	24.0#	300'	230 sacks
7 7/8"	4 1/2"	10.5#	3850'	250 sacks

All casing will be new K-55, refer to attached Drilling Plan for program details.

## TECHNICAL REVIEW

Engr.                     Geol.                     Surface                     

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

Signed: Gary E. WurdemanTitle: Dist. Drilling & Prod'n Mgr.Date: Dec. 4, 1989

(This space for Federal or State office use)

Permit No. 43-047-31888

Approval Date

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MININGApproved by  
Conditions of approval, if any:

Title

DATE: 1-26-90BY: John R. B...WELL SPACING: Lease No. 145-8

\*See Instructions On Reverse Side

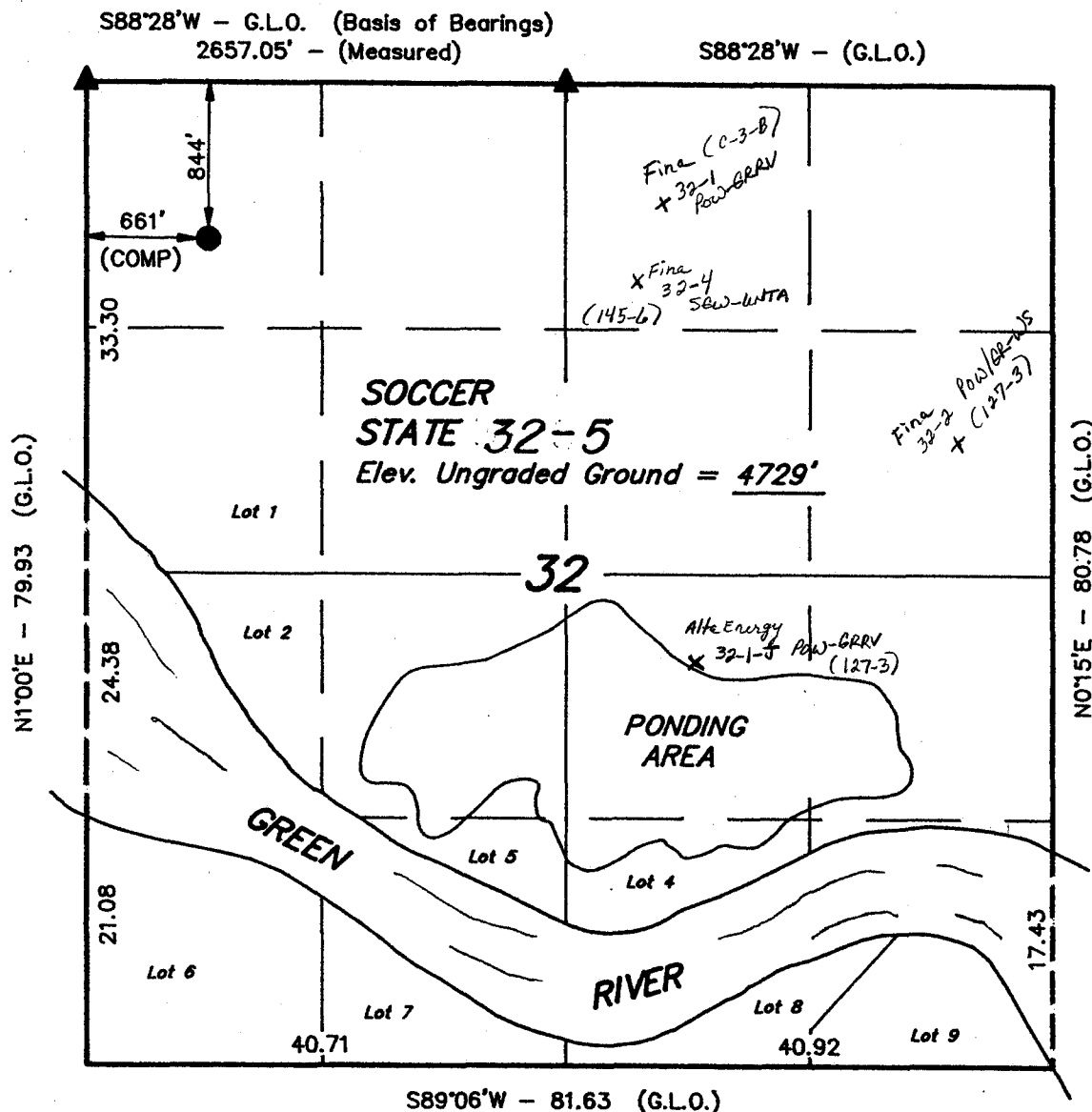
**T6S, R21E, S.L.B.&M.**

**TXO PRODUCTION CORP.**

Well location, SOCCER STATE 32-5, located as shown in the NW 1/4 NW 1/4 Section 32, T6S, R21E, S.L.B.&M. Uintah County, Utah.

BASIS OF ELEVATION

SPOT ELEVATION AT THE NW CORNER OF SECTION 32, T6S, R21E, S.L.B.&M. TAKEN FROM THE VERNAL SE QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4692 FEET.



▲ = SECTION CORNERS LOCATED. (Brass Caps).



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

ROBERT L. FAIR  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 5708  
STATE OF UTAH

**UINTAH ENGINEERING & LAND SURVEYING**  
P. O. BOX 1758 - 85 SOUTH - 200 EAST  
VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 11-26-89
PARTY D.A. E.M. D.S. T.D.H.	REFERENCES G.L.O. PLAT
WEATHER COOL, CLEAR	FILE TXO PRODUCTION CORP.

## DRILLING PLAN

DATE: December 4, 1989

WELL NAME: Soccer State #32-5

SURFACE LOCATION: 661' FWL, 844' FNL, (NW/NW) Section 32-T6S-R21E, SLB&M,  
Uintah County, Utah

STATE OIL & GAS LEASE NO.: 41862

Be advised that TXO Production Corp. is considered to be the operator on the above described lands and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands or portions thereof, bond coverage for this well is provided by Bond No. 199-32-14, Principal TXO Production Corp.

### I. DRILLING PROGRAM

1. SURFACE FORMATION: Duchesne River

2. ESTIMATED FORMATION TOPS:

Uinta	1000'
Uinta "B"	3233'
Green River	3450'
Total Depth	3650'

3. ESTIMATED DEPTH AT WHICH OIL, GAS, WATER OR OTHER MINERAL BEARING ZONES ARE EXPECTED TO BE ENCOUNTERED:

Expected Gas Zones: Uinta "B"

4. PRESSURE CONTROL EQUIPMENT:

- A. After surface casing is set, a double ram-type blowout preventer with blind rams and pipe rams, with minimum working pressure of 2000 psi will be installed. See Exhibit 1.
- B. A choke control, fill and kill lines with minimum working pressure of 2000 psi will be installed.
- C. The equipment in A and B will be pressure-tested to 2000 psi for a minimum of 15 minutes before drilling surface pipe cement. The blowout preventer will be tested for proper operation daily and during trips.

5. CASING PROGRAM AS PER FORM 3160-3.

6. MUD PROGRAM:

0'-2600' Native, 8.8-9.2 ppg, 28-32 viscosity API  
2600'-TD LSND, 9.0-9.4, 35-45 viscosity API; WL less than 10 cc's

7. CORING, LOGGING, TESTING PROGRAM:

A. No coring anticipated.

B. Logging will consist of: GR-SP-DIL from TD to surface casing;  
GR, CAL, FDC-CNL from TD to  $\pm$  500'  
above TD.

C. Possible DST for Unita "B" zone.

8. ABNORMAL CONDITIONS:

A. No abnormal pressures or temperatures are expected.

B. No hazardous gases such as H<sub>2</sub>S are expected.

9. AUXILIARY EQUIPMENT:

A. A kelly cock will be used.

B. A float valve will be run in the drill string above the bit.

C. A sub with full opening valve will be kept on the derrick floor to  
stab into DP when kelly is not in use.

10. ANTICIPATED STARTING DATES:

Start location construction	December 18, 1989
Spud date	December 21, 1989
Complete drilling	January 2, 1990
Completed	January 12, 1990

11. COMPLETION PROGRAM:

A smaller completion rig will replace the drilling rig for this portion of the operations if the well shows capability of commercial production. After casing is set by the drilling rig, the completion rig will be moved in and productive zones will be perforated, tested and treated as necessary. Gas will be flared during testing. Produced liquid

hydrocarbons will be directed to test tanks on location. Produced water will be contained in the drilling reserve pit. The extent of treatment of a zone (acidizing and/or fracing) can only be determined after the zone has been tested. An exact completion program will be furnished after drilling and logging, if requested.

**12. Additional Information:**

Attached are an access route map, a U.S.G.S. topo map showing the position of the proposed well inside the Stirrup area, and a plan & profile drawing of the pad layout.

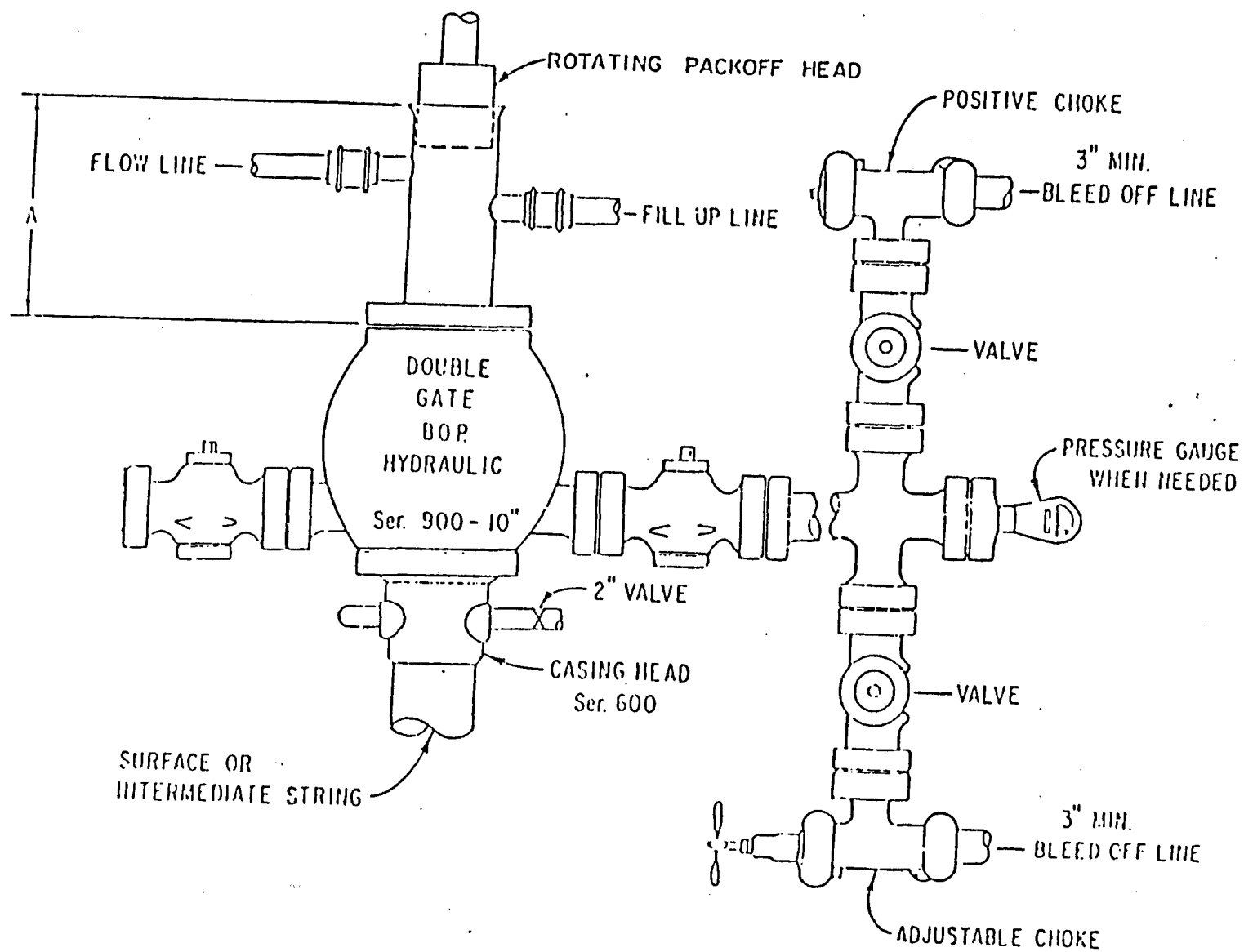
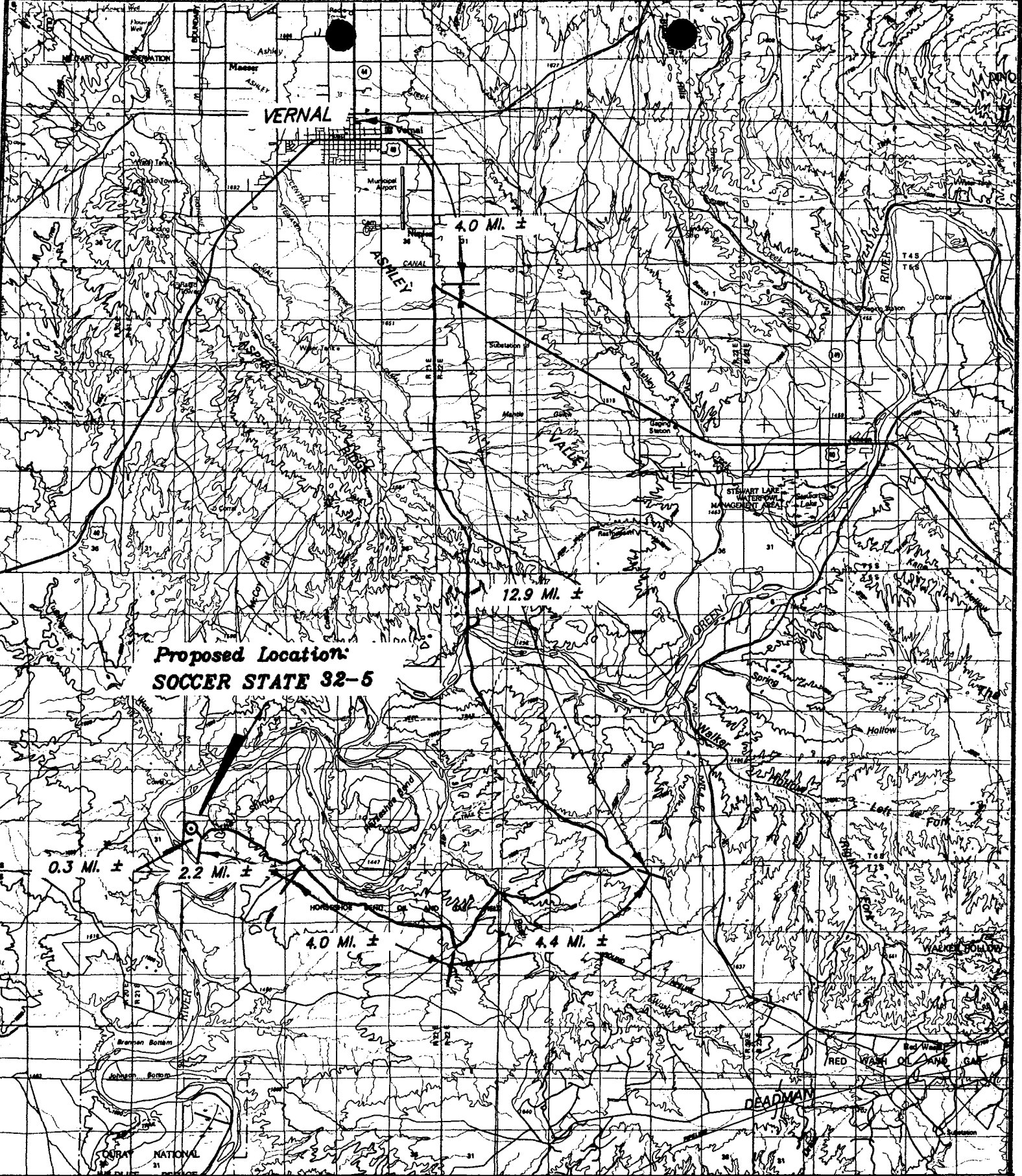


EXHIBIT I  
 BLOWOUT PREVENTER DIAGRAM  
 TXO PRODUCTION CORP.



**Proposed Location:  
SOCCER STATE 32-5**

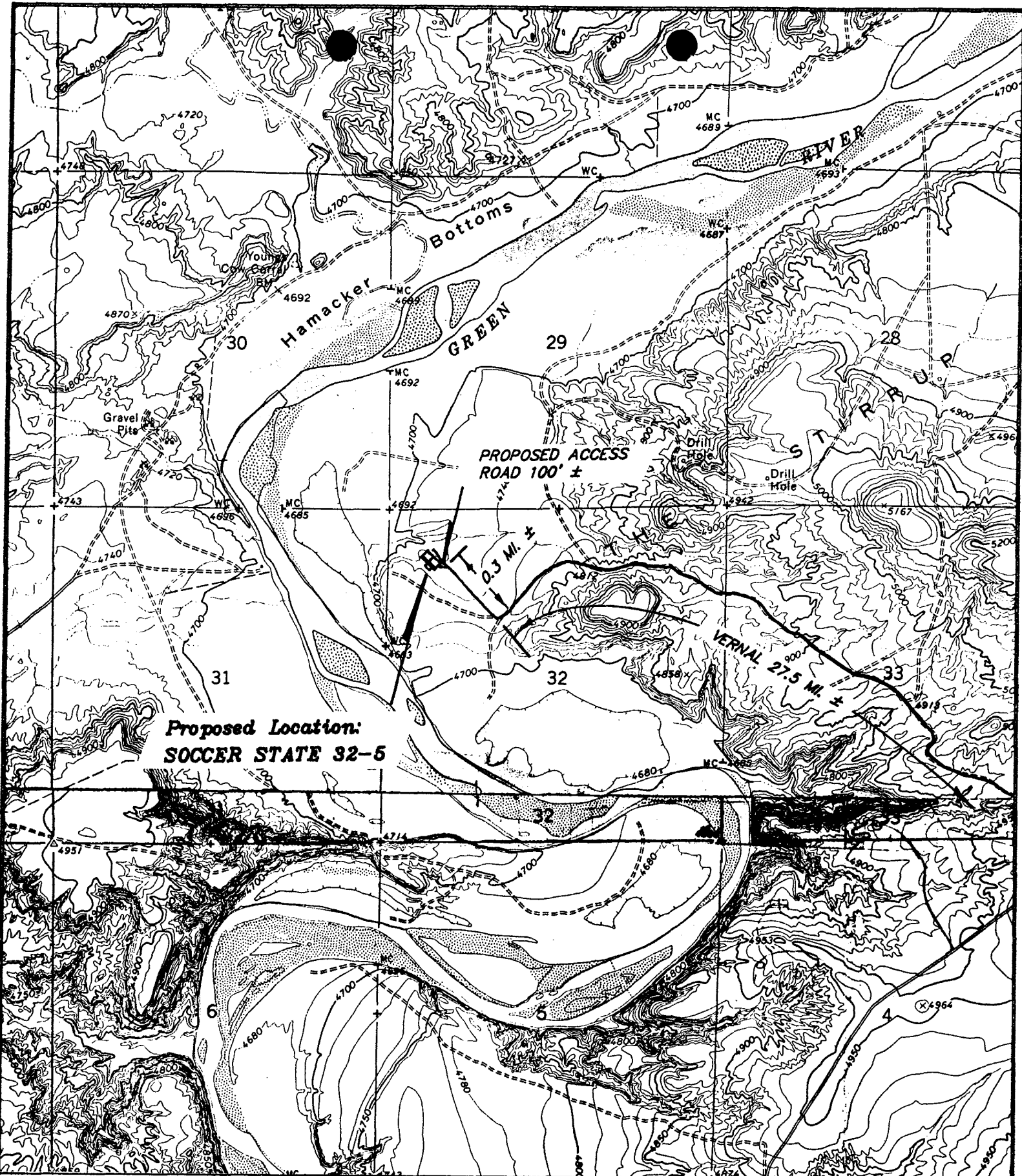
**TOPOGRAPHIC  
MAP "A"**

DATE: 11-27-89



**TXO PRODUCTION CORP.**  
**SOCCER STATE 32-5**  
**SECTION 32, T6S, R21E, S.L.B.&M.**



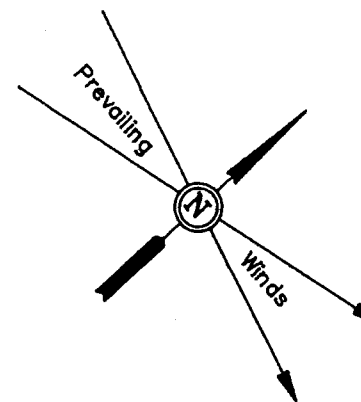
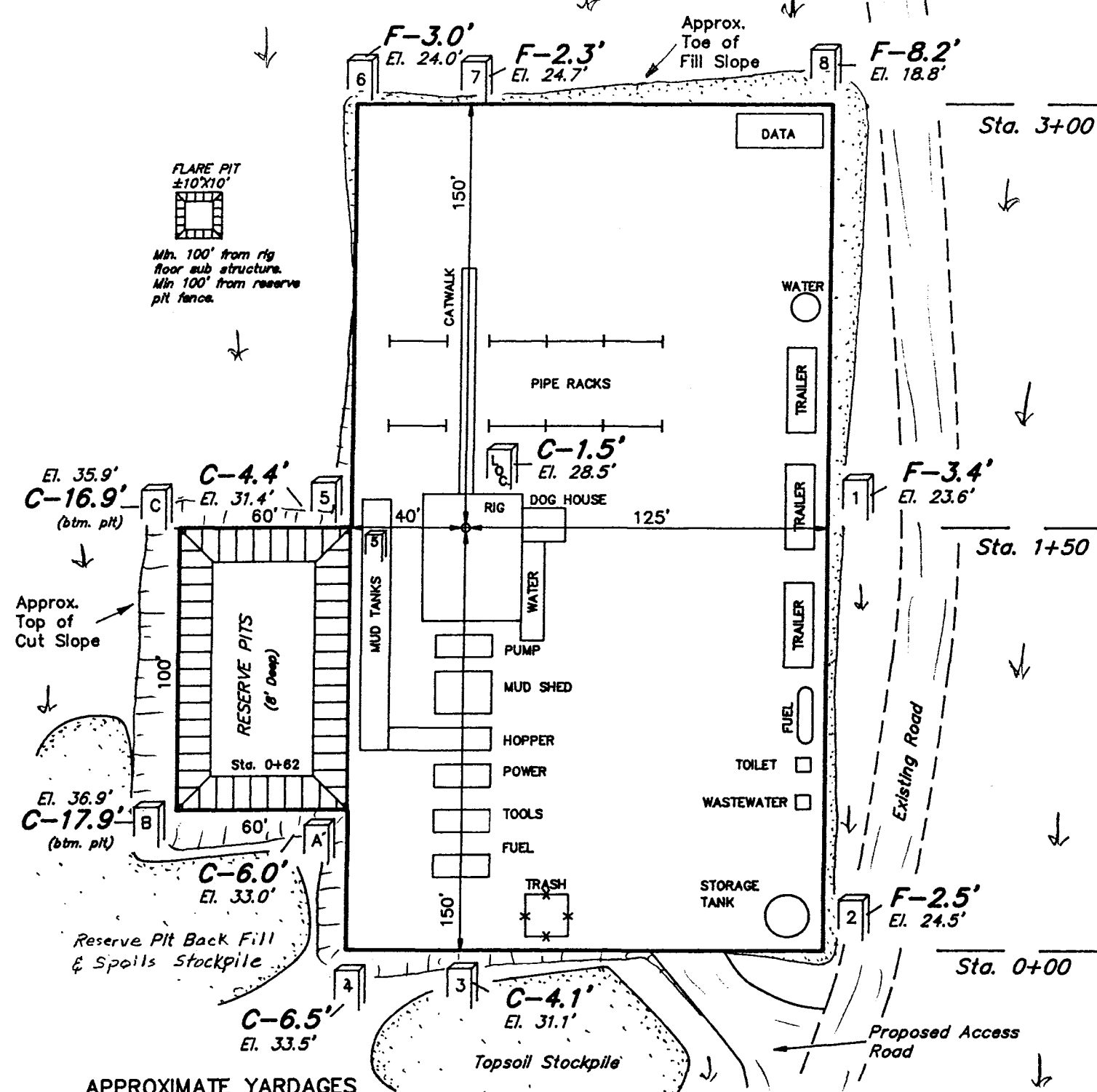


TOPOGRAPHIC  
MAP "B"  
SCALE: 1" = 2000'  
DATE: 11-27-89

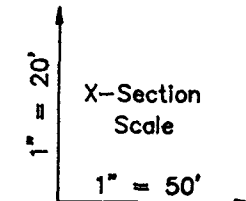


TXO PRODUCTION CORP.  
SOCCER STATE 32-5  
SECTION 32, T6S, R21E, S.L.B.&M.

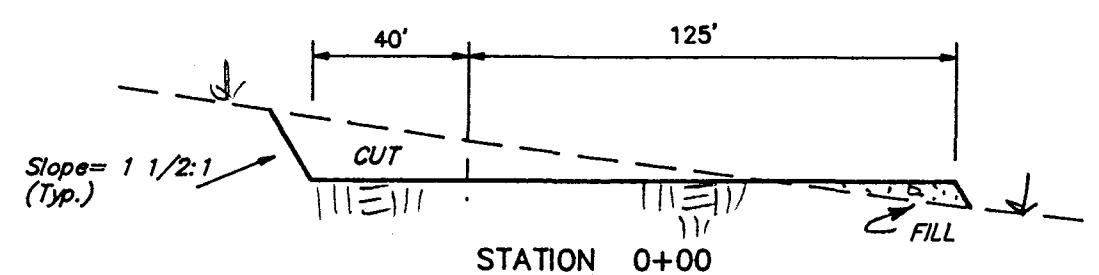
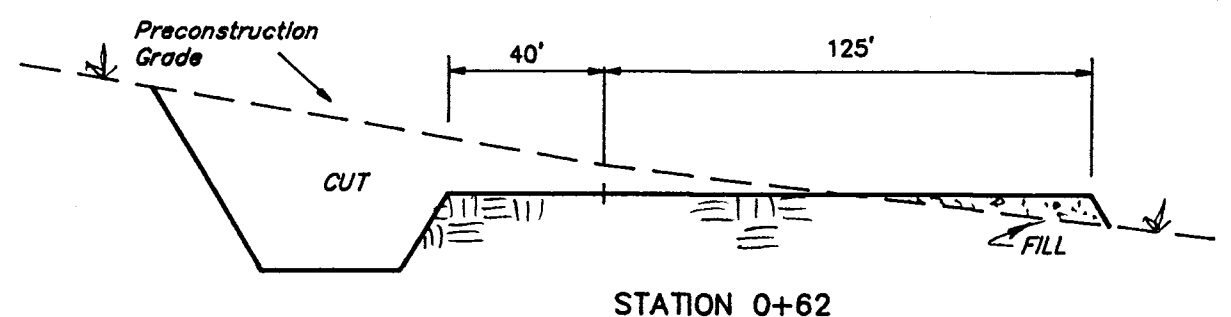
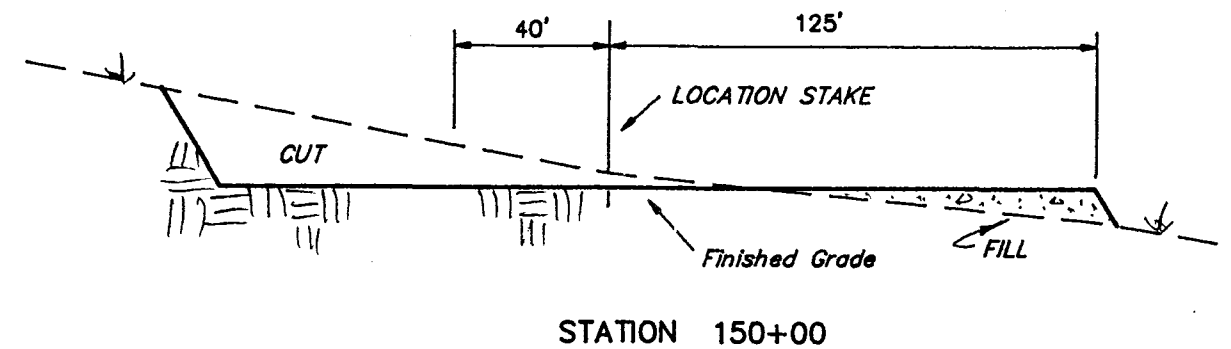
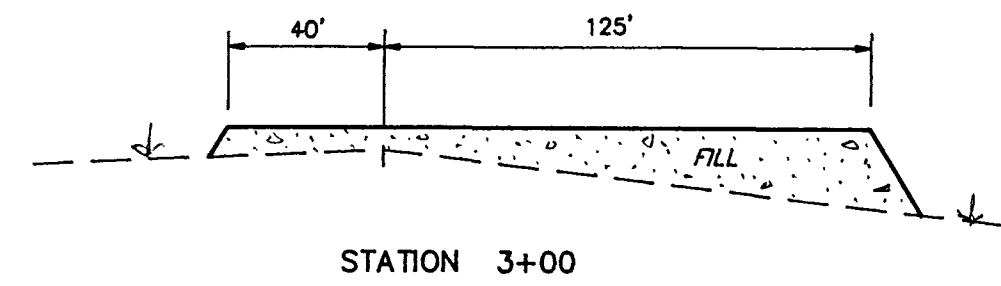
TXO PRODUCTION CORP.  
LOCATION LAYOUT FOR  
SOCCER STATE #32-5  
SECTION 32, T6S, R21E, S.L.B.&M.



SCALE: 1" = 50'  
DATE: 11-28-89



TYP. LOCATION LAYOUT  
TYP. CROSS SECTIONS



Elev. Ungraded Ground at Location Stake = 4728.5'

Elev. Graded Ground at Location Stake = 4727.0'

UINTAH ENGINEERING & LAND SURVEYING  
P.O. Box 1758 Fern, Utah

APPROXIMATE YARDAGES

(6") Topsoil Stripping = 1,028 Cu. Yds.  
Pit Volume (Below Grade) = 1,252 Cu. Yds.  
Remaining Location = 3,570 Cu. Yds.

TOTAL CUT = 5,850 CU.YDS.  
FILL = 3,970 CU.YDS.

EXCESS MATERIAL AFTER 5% COMPACTION = 1,671 Cu. Yds.  
Topsoil & Pit Backfill (1/2 Pit Vol.) = 1,654 Cu. Yds.  
EXCESS UNBALANCE (After Rehabilitation) = 17 Cu. Yds.

## DRILLING LOCATION ASSESSMENT

### State of Utah Division of Oil, Gas and Mining

OPERATOR: TXO PRODUCTION CORP. WELL NAME: SOCCER STATE 32-5  
SECTION: 32 TWP: 16S RNG: 21E LOC: 661 FWL 844 FNL  
QTR/QTR NW/NW COUNTY: UINTAH FIELD: HORSESHOE BEND  
SURFACE OWNER: STATE OF UTAH  
SPACING: F SECTION LINE F QTR/QTR LINE F ANOTHER WELL  
INSPECTOR: BRAD HILL DATE AND TIME: 12/5/89 15:30

PARTICIPANTS: CHARLIE CURLEE-TXO

REGIONAL SETTING/TOPOGRAPHY: Hilly area on the edge of the Green River Floodplain. Location is above the floodplain on an old river terrace deposit.

#### LAND USE:

CURRENT SURFACE USE: None at present but has been used for grazing.

PROPOSED SURFACE DISTURBANCE: A pad will be constructed which will be approximately 165'X 300' with an extension 60'X 100' for the reserve pit. Access will be directly off of the existing road.

AFFECTED FLOODPLAINS AND/OR WETLANDS: The location is approximately 1/2 mile from the Green River and is on sediments which are remnants of a previous floodplain.

FLORA/FAUNA: Rabbitbrush, Russian Thistle, Prickly Pear, Saltbush, Snakeweed, Curly grass, Indian Ricegrass/ Insects, birds, deer

#### ENVIRONMENTAL PARAMETERS

##### SURFACE GEOLOGY

SOIL TYPE AND CHARACTERISTICS: Sand with abundant gravel.

SURFACE FORMATION & CHARACTERISTICS: Pleistocene terrace deposits which overly Green River Formation.

EROSION/SEDIMENTATION/STABILITY: No active erosion or sedimentation. Surface is stable.

PALEONTOLOGICAL POTENTIAL: None observed

##### SUBSURFACE GEOLOGY

OBJECTIVES/DEPTHS: Uintah "B"-3233'

ABNORMAL PRESSURES-HIGH AND LOW: None anticipated

CULTURAL RESOURCES/ARCHAEOLOGY: OK

CONSTRUCTION MATERIALS: Onsite materials

SITE RECLAMATION: To be reclaimed as per State Lands instructions.

RESERVE PIT

CHARACTERISTICS: A reserve pit will be constructed which is 60'X 100"X 8'.

LINING: To be lined with a synthetic liner of 12 mil minimum thickness.

MUD PROGRAM: 0-2600'/native mud, 2600'-TD/LSND

DRILLING WATER SUPPLY: Green River

OTHER OBSERVATIONS

Army Corps of Engineers may be interested in this location because of its proximity to the Green River Floodplain.

STIPULATIONS FOR APD APPROVAL

Reserve pit to be lined with a synthetic liner.

Drainage diversion to be placed on uphill side of location and pit.

OPERATOR TXO Production Corporation (N1580) DATE 12-8-89

WELL NAME Soccer State 32-5

SEC NWNW 32 T 6S R 21E COUNTY Uintah

43-047-31888  
API NUMBER

State  
TYPE OF LEASE

CHECK OFF:

(12-26-89 #5624044)

☒ PLAT

☒ BOND

☒ NEAREST WELL

☒ LEASE

☒ FIELD (S)

☒ POTASH OR OIL SHALE

PROCESSING COMMENTS:

Nearest well ok under Cause No. 145-8

Need Water Permit

B. Hill Presite / Received 12-11-89

Archeological Survey Received 12-15-89

Bond Approved 12-26-89 (Eff. 1-16-90 ML-41862 TXO 100%)

APPROVAL LETTER:

SPACING: ☐ R615-2-3 N/A  
UNIT

☐ R615-3-2

☒ ~~TO CRRV 127-3 3-28-85~~  
CAUSE NO. & DATE  
Expected Gas 145-6 7-26-85  
Winta 145-8 9-19-85

☐ R615-3-3

STIPULATIONS:

1. Water Permit CC: State Lands
2. St. Land Stipulation → Survey 12-15-89 State History
3. The reserve pit shall be lined with a synthetic liner of at least 12 mil thickness.
4. A drainage diversion shall be placed on uphill side of the location and pit.
- 0218T 5. The operator shall contact the U.S. Army Corps of Engineers and ensure that their regulatory requirements, if applicable, have been met regarding construction activities near the Green River.



**TXO PRODUCTION CORP.**

1800 LINCOLN CENTER BUILDING  
DENVER, COLORADO 80264

TELEPHONE (303) 861-4246

December 13, 1989

Utah Division of Oil, Gas and Mining  
355 West North Temple  
3 Triad Center  
Suite 350  
Salt Lake City, Utah 84180-1203

RECEIVED  
DEC 15 1989

DIVISION OF  
OIL, GAS & MINING

Re: Baseball State #1  
Section 28-T6S-R21E  
~~Soccer State #32-5~~  
Section 32-T6S-R21E  
Uintah County, Utah

Gentlemen:

Enclosed please find archeological clearances for both wells referenced above.

If you have any questions or need additional information, please contact me at this office.

Very truly yours,

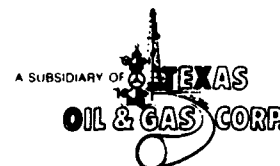
TXO PRODUCTION CORP.

*Charles K. Curlee*

Charles K. Curlee  
Environmental Manager

CKC/gbp

Enclosures



RECEIVED  
DEC 15 1989

DIVISION OF  
OIL, GAS & MINING

CULTURAL RESOURCE INVENTORY OF  
FIVE PLANNED TXO PRODUCTION WELL PADS  
IN UINTAH COUNTY, UTAH

by  
Alan D. Reed, Principal Investigator  
and  
Rand A. Greubel, Staff Archaeologist

Alpine Archaeological Consultants, Inc.  
P.O. Box 521  
Montrose, Colorado 81402  
(303) 249-6761

Prepared for

TXO Production Corp.  
1800 Lincoln Center Building  
Denver, Colorado 80264

*Under the Provisions of  
BLM Cultural Resource Use Permit 89UT62700*

Project Authorization No. U89-A1-703bs

November 1989

## INTRODUCTION

TXO Production Corporation of Denver, Colorado is planning to construct five well pads and associated access roads in Uintah County, Utah. The five planned pads have been designated Football Federal #29-4, Golf Federal #29-5, Baseball Federal #1, Tennis Federal #28-2 and Soccer State #32-5. Construction will require the preparation of five earthen pads, each covering approximately two or three acres, and construction of approximately 366 m (1200 ft) of access roads. The planned well pads are located on state lands and on lands administered by the Bureau of Land Management, Vernal District. Because federal lands are involved, various historic preservation laws and regulations must be addressed, including the National Historic Preservation Act of 1966 (as amended), Executive Order 11593, the Archaeological Preservation Act of 1974, and the Archaeological Resources Protection Act of 1979 (as amended). It is the intent of these laws to identify significant cultural resources and to facilitate their preservation. To comply with these laws, TXO Production Corp. contracted with Alpine Archaeological Consultants, Inc. to conduct a literature review and intensive pedestrian inventory of the planned ground disturbance area.

The fieldwork was conducted on November 21, 1989 by Alan D. Reed, Principal Investigator, and Rand A. Greubel, Staff Archaeologist, of Alpine Archaeological Consultants, Inc. The fieldwork was conducted under the provisions of BLM Cultural Resource Use Permit 89UT62700. No artifacts were collected. Data generated by the project are on file at Alpine Archaeological Consultants, Inc.

## LOCATION AND ENVIRONMENTAL BACKGROUND

The four planned well pads are located in the Uintah Basin of the Colorado Plateau physiographic province. Legal descriptions are provided in Table 1. The planned wells are located approximately 14.5 km (9 miles) south of Vernal in the Stirrup locality of the Green River (Figure 1). The planned pads are on gently north and west facing river terraces. Elevations range from 4700 ft (1433 m) to 5020 ft (1530 m). Soils are sandy and contain abundant water-worn gravels, including cobbles of chert and quartzite. Vegetation associated with the Soccer State #32-5, the Football Federal #29-4, the Golf Federal #29-5 and the Baseball Federal #1 pads are dominated by prickly pear, shadscale, four-wing saltbush, and grasses. In addition, the Golf Federal #29-5 location contains some broadleaved Cottonwood. The Tennis Federal #28-5 location is characterized by low, gently rolling sand dunes vegetated with Indian ricegrass, prickly pear and rabbitbrush; this pad is located on a higher terrace than the other wells.





Table 1. Legal Locations of Project Well Pads

Well Name	Location (S.L.M.)			
Football Federal #29-4	SE $\frac{1}{4}$ , SW $\frac{1}{4}$	Sec. 29	T 6S	R21E
Golf Federal #29-5	SE $\frac{1}{4}$ , NE $\frac{1}{4}$	Sec. 29	T 6S	R21E
Baseball Federal #1	NE $\frac{1}{4}$ , NW $\frac{1}{4}$	Sec. 28	T 6S	R21E
Tennis Federal #28-2	SE $\frac{1}{4}$ , SW $\frac{1}{4}$	Sec. 28	T 6S	R21E
Soccer State #32-5	NW $\frac{1}{4}$ , NW $\frac{1}{4}$	Sec. 32	T 6S	R21E

#### STATEMENT OF OBJECTIVES

The primary objective of the archaeological survey was to locate significant cultural resources in the area of planned construction to aid in the preservation of those cultural resources or to facilitate the formulation of appropriate mitigative strategies. The first step in achieving this objective was to locate all cultural resources in the immediate vicinity of each well pad. This was accomplished by conducting site file searches at the Utah Division of State History and at the Bureau of Land Management's Vernal District Office and by conducting an intensive pedestrian survey of the project area. For the purpose of this study, cultural resource sites were defined as areas containing evidence of patterned human activity, in excess of 50 years antiquity. Locations of artifacts evincing greater than 50 years of age not meeting the criteria for site definition were classified as isolated finds. Recommendations regarding the significance of the cultural resources located by this project are assessed using the criteria for determining eligibility for nomination to the National Register of Historic Places. The historic preservation laws mandating this cultural resource study specifically identify eligibility to the National Register of Historic Places as the key factor in determining preservation needs. The criteria for assessing site significance, as published in the U.S. Government Code of Federal Regulations (36 CFR 60) read as follows:

National Register criteria for evaluation. The quality of significance in American history, architecture, archaeology, and culture is present in districts, sites, buildings, structures, and objects of State and local importance that possess integrity of location, design, setting, materials, workmanship, feeling, and association, and

- (a) that are associated with events that have made a significant contribution to the broad patterns of our history; or
- (b) that are associated with the lives of persons significant in our past; or
- (c) that embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or

- (d) that have yielded, or may be likely to yield, information important in prehistory or history.

Identification and evaluation of cultural resources in the project area permits formulation of management recommendations. Isolated finds do not meet the criteria for inclusion on the National Register and are not recommended for further archaeological treatment. For significant sites, management options include site avoidance and data recovery.

#### LITERATURE REVIEW

On November 21, 1989, a site file search was conducted at the BLM Vernal District Office. The records indicated that no cultural resources have been recorded within the project area.

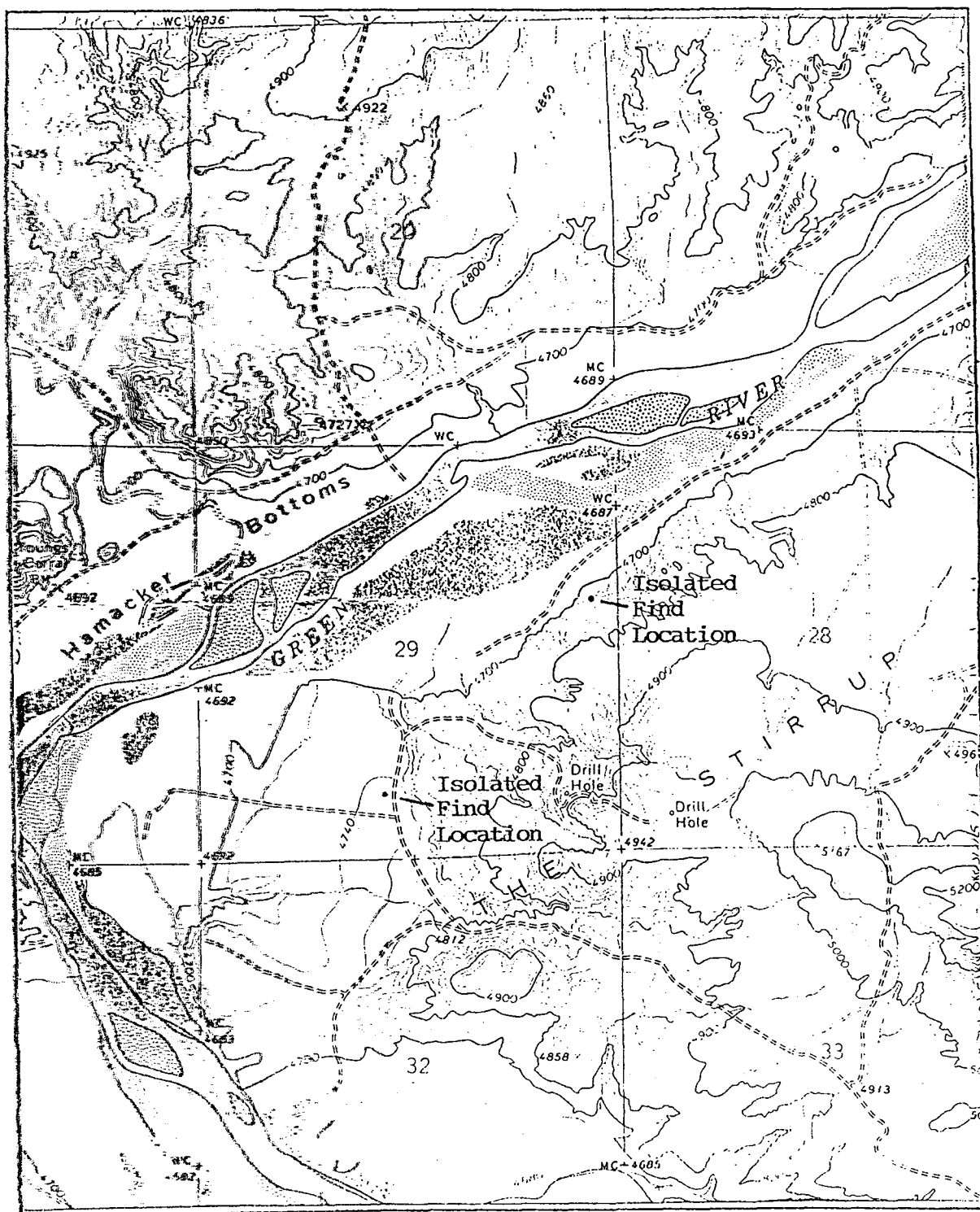
A site file search was also conducted at the Utah Division of State History on November 20, 1989. This search confirmed that no cultural resource sites had been previously recorded in the project area. State records indicate, however, that road corridors for planned access roads had been previously inspected for cultural resources within the 10-acre parcels surrounding the Football Federal #29-4 and the Soccer State #32-5 locations (Hauck 1985a; 1985b).

#### FIELD METHODS

The cultural resource inventory was conducted by two archaeologists. At each of the five planned well pads, a 10-acre square parcel was defined, oriented to the cardinal directions and centered on the well pad's center stake. The boundary of the parcel was walked, using a compass for orientation. Parallel sweeps, spaced at 15 m intervals, were conducted across the parcel, again using a compass for orientation. The ground surface was inspected for artifacts and cultural features. Portions of the access roads fell within the 10-acre parcel surveyed. The remaining stretches of road were surveyed to 15 m each side of the centerline.

#### RESULTS

The inspection of five 10-acre parcels and the inspection of approximately .4 km ( $\frac{1}{4}$  mile) of associated access road resulted in the identification of two isolated finds. No cultural resource site locations were discovered. One isolated find was located in the 10-acre parcel delineated around Football Federal #29-4, within an area staked as an access road. The isolated find consists of one medium-grained black quartzite flake, bifacially retouched into a crude discoidal tool. This artifact retains approximately 15% water-worn cortex on its dorsal surface and measures approximately 5 cm length by 4.3 cm width by 2 cm thickness. The other isolated find was located within the 10-acre parcel around Baseball Federal #1. It consists of one white quartzite complete flake measuring 6.8 cm in length and retaining cortex on the platform only, and one white chalcedony broken flake measuring 2.7 cm in length with water-worn cortex covering 100% of the dorsal surface. This isolate is not within the area staked for construction. Figure 2 depicts the locations of the isolated finds.



U.S.G.S. Vernal SE, Utah  
7.5' quadrangle (1964, rev. 1978)

0 2000 4000  
SCALE IN FEET

0 500 1000  
SCALE IN METERS



Figure 2. Locations of isolated finds. Section 29, Township 6 South, Range 21 East, S.L.M.

## SUMMARY AND RECOMMENDATIONS

A site file search and intensive pedestrian inventory were conducted for five planned TXO Production Corp. well pads and associated access roads. The site file search revealed that no cultural resource sites had been previously recorded in the project area. The intensive inspection of the 53-acre project area yielded no cultural resource sites. Two prehistoric isolated finds were located near two of the planned well pads. Isolated finds are not eligible to the National Register of Historic Places and so merit no management consideration. Because no cultural resource sites were found during the project, no additional archaeological work is recommended for Football Federal #29-4, Golf Federal #29-5, Baseball Federal #1, Tennis Federal #28-2 or Soccer State #32-5 or their associated access roads prior to project development.

## REFERENCES CITED

Hauck, F. R.

1985a Two Units in Stirrup Locality: Cultural Resource Inventory for Alta Energy's Cotton Club No. 1 and Stirrup No. 32-IJ Wells. Summary Report of Inspection for Cultural Resources form on file at the Utah Division of State History, Salt Lake City.

1985b Alternate Access Route: Cultural Resource Inventory for Alta Energy's Cotton Club Unit No. 1. Summary Report of Inspection for Cultural Resources form on file at the Utah Division of State History, Salt Lake City.

BEFORE THE BOARD OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES AND ENERGY  
IN AND FOR THE STATE OF UTAH

-----

IN THE MATTER OF THE PETITION OF TXO \*  
PRODUCTION CORPORATION FOR AN ORDER \*  
ALLOWING TWO PRODUCTION WELLS WITHIN \*  
ESTABLISHED 320 ACRE SPACING UNITS \*  
FOR THE UINTA FORMATION IN THE \*  
HORSESHOE BEND FIELD, UINTAH COUNTY, \*  
UTAH. \*

**FINDINGS OF FACT,  
CONCLUSIONS OF LAW,  
AND ORDER**

Docket No. 85-044  
Cause No. 145-8

-----

Pursuant to the Petition of TXO Production Corporation, this cause came on for hearing before the Board of Oil, Gas & Mining, Department of Natural Resources and Energy, State of Utah, on Thursday, August 22, 1985, at 10 o'clock a.m. in the Board Room of the Division of Oil, Gas & Mining, 355 West North Temple, 3 Triad Center, Suite 301, Salt Lake City, Utah. The following Board members were present:

Gregory P. Williams, Chairman  
James W. Carter  
Richard B. Larsen  
John M. Garr  
E. Steele McIntyre  
Charles R. Henderson

The Board was represented by Mark C. Moench, Esq., Assistant Attorney General for the State of Utah.

Appearances for the Division of Oil, Gas & Mining were made by:

Ronald J. Firth, Associate Director,  
Oil & Gas

John R. Baza, Petroleum Engineer

The Division was represented by Barbara W. Roberts, Assistant Attorney General for the State of Utah.

The Petitioner, TXO Production Corporation was represented by John A. Harja of Hugh C. Garner & Associates, 310 S. Main Street, Suite 1400, Salt Lake City, Utah 84101.

Testimony was given by:

Ricky J. Taylor; Geologist, for Petitioner  
Russ E. Gillis; Petroleum Engineer, for Petitioner  
Thomas A. Mitchell; Attorney-at-law, for Petitioner

Mr. Assad M. Raffoul, Petroleum Engineer of the Utah State Office of the Bureau of Land Management was also present.

NOW, THEREFORE, the Board having considered the testimony adduced and the exhibits reviewed in said hearing, and being fully advised in the premises, now makes and enters the following:

#### FINDINGS OF FACT

1. Due and regular notice of the time, place and purpose of the hearing was given to all interested parties as required by law and the Rules and Regulations of the Board. Said parties are listed in Exhibit "B" attached to the Petition.

2. The Board has jurisdiction over the subject matter of the Petition and over all parties interested therein and has jurisdiction to make and promulgate the Order hereinafter set forth.

3. The Board entered its Order in Cause No. 145-2 to establish 320 acre spacing units for the Uinta formation within the following lands:

Township 6 South, Range 21 East, S.L.M.  
Sections 25-27, 34-36

Township 6 South, Range 22 East, S.L.M.  
Sections 28-33

Township 7 South, Range 21 East, S.L.M.  
Sections 1-3, 10-12

Township 7 South, Range 22 East, S.L.M.  
Sections 4-6, 8-10

These 320 acre drilling units are composed of the N1/2 and S1/2 of each governmental surveyed section.

4. The Order in Cause No. 145-2 further provided that well sites within the units would be located not less than 1000 feet from the North line and 1000 feet from the East line of the Northeast Quarter, and not less than 1000 feet from the South line and 1000 feet from the West line of the Southwest Quarter of each section, except in Section 2, Township 7 South, Range 21 East, S.L.M., and Sections 27 and 34 of Township 6 South, Range 21 East, S.L.M., where the permitted well locations were established as not less than 1000 feet from the North line and 1000 feet from the West line of the Northwest Quarter and not less than 1000 feet from the South line and 1000 feet from the East line of the Southeast Quarter of each such exception section.

5. The Order in Cause No. 145-2 further provided that the Board may by administration make exceptions to the prescribed well



locations in the event topographic and other structural considerations so require.

6. This Board entered its Order in Cause No. 145-3 to extend the provisions of the Order in Cause No. 145-2 to Section 4, Township 7 South, Range 21 East, S.L.M., Uintah County, Utah.

7. This Board entered its Order in Cause No. 145-4 to allow for the drilling of and simultaneous production from two wells in the Uinta formation within each 320 acre spacing drilling unit in Sections 31, 32 and 33 of Township 6 South, Range 22 East, S.L.M.

8. The Order in Cause No. 145-4 restricted the permitted well locations within Sections 31, 32 and 33 to the area not less than 500 feet from the boundaries of each surveyed quarter section.

9. The Order in Cause No. 145-4 provided that the Board may administratively make exceptions to the prescribed well locations in the event topographic and other structural variations so require.

10. This Board entered its Order in Cause No. 145-5 to allow, inter alia, two production wells per 320 acre spacing unit for the Uinta formation within Sections 28, 29, 30 of Township 6 South, Range 22 East, S.L.M. Said Order further provided that the permitted well locations should be located within each quarter Section, no closer than 500 feet from the boundaries of such quarter section, and that exception locations to the prescribed well locations may be granted administratively by the Division of Oil, Gas & Mining in the event topographic conditions so require.

11. This Board entered its Order in Cause No. 145-6 to extend the 320 acre Uinta formation spacing (established by Cause No. 145-2) to Section 32, Township 6 South, Range 21 East, S.L.M. Said Order also provided that exceptions to the prescribed well locations, may be granted administratively, (without Board hearing) in the event topography or other structural reasons so require.

12. The Uinta formation constitutes a common source of supply of gas under the following tracts:

Township 6 South, Range 21 East, S.L.M.  
Sections 25-27, 32, 34-36

Township 7 South, Range 21 East, S.L.M.  
Sections 1-4, 10-12

Township 7 South, Range 22 East, S.L.M.  
Sections 4-6, 8-10

13. One well per each 320 acre drilling/spacing unit previously established on the lands described in paragraph 12 will not effectively, efficiently, or adequately drain the gas within the Uinta formation.

14. Economic evaluation of the proposed wells in the lands described in paragraph 12 indicates that the wells will very probably recover commercial amounts of gas, reach payout and provide a good rate of return to investors.

15. The Board has the authority, pursuant to Section 40-6-6(4) U.C.A. (1953 as amended) to modify previous orders to authorize additional wells on each previously established spacing/drilling unit.

16. To protect the correlative rights of the various interest owners, and to prevent waste, maximize recovery of the natural

resource, and prevent the drilling of unnecessary wells, the Board should enter an Order permitting two (2) wells to be drilled and produce simultaneously within each 320 acre Uinta formation drilling unit on the lands described in paragraph 12 above.

17. The permitted well locations within each 320 acre Uinta formation spacing unit should be within each government surveyed quarter section, one well per quarter section, no closer than 500 feet from the boundaries of each quarter section.

18. The Division of Oil, Gas and Mining, or successor agency, should have the right to administratively approve exceptions to the prescribed well locations if topographical, cultural, geological or other considerations so require.

#### CONCLUSIONS OF LAW

1. The Board has the authority, pursuant to Section 40-6-6(4) U.C.A. (1953 as amended) to modify previous orders to authorize additional wells on each previously established spacing/drilling unit.

2. An Order permitting (a) the drilling of additional wells on existing units as provided herein, and (b) the simultaneous production of two wells per 320 acre Uinta formation spacing/drilling unit will prevent waste, maximize recovery, prevent the drilling of unnecessary wells, and protect the correlative rights of interest owners.

Sufficient evidence now being available upon which to reach a decision, the Board issues the following:

ORDER

Based upon evidence presented covering the geology, ownership, reservoir characteristics and reserves of natural gas, and to protect correlative rights and maximize the recovery of gas, the Orders issued in Cause Nos. 145-2, 145-3, 145-6, and 145-7 are hereby amended to the extent necessary to authorize the following:

1. Two production wells are allowed per each 320 acre Uinta formation drilling unit on the following lands:

Township 6 South, Range 21 East, S.L.M.  
Sections 25-27, 32, 34-36

Township 7 South, Range 21 East, S.L.M.  
Sections 1-4, 10-12

Township 7 South, Range 22 East, S.L.M.  
Sections 4-6, 8-10

2. The permitted well locations within each 320 acre drilling unit are within each government surveyed quarter section, one well per quarter section, at a point no closer than 500 feet from the boundaries of each quarter section;


3. The Division of Oil, Gas & Mining, or successor agency, may administratively approve exceptions to the prescribed well locations pursuant to Rule C3 of the General Rules and Regulations of the Board (or any duly promulgated replacement rule) if topographical, cultural, geological or other considerations so require;

4. The Board retains exclusive and continuing jurisdiction of all matters covered by this Order and of all parties affected


thereby, and particularly reserves exclusive and continuing jurisdiction to make further orders as appropriate and as authorized by statute and regulation.

DATED this 19<sup>th</sup> day of Sept., 1985.

STATE OF UTAH  
BOARD OF OIL, GAS & MINING

  
Gregory P. Williams, Chairman

Approved as to form:

  
Mark C. Moench  
Assistant Attorney General



Norman H. Bangerter

Governor

Don C. Hansen

Executive Director

Robert L. Morgan

State Engineer

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF WATER RIGHTS

1606 West North Temple, Suite 220

Salt Lake City, Utah 84116-3166

801-538-7240

*FWF  
pls file on  
station sheet*

January 19, 1990

TXO Production Corp.  
Attn: Charles K. Curlee  
1800 Lincoln Center Bldg.  
Denver, CO 80264

Dear Applicant:

RE: TEMPORARY APPLICATION  
NUMBER 45-5381 (T64334)

Enclosed is a copy of approved Temporary Application Number 45-5381 (T64334). This is your authority to construct your works and to divert the water for the uses described.

While this approved application does give you our permission to divert and use water, it does not grant easements through public or private lands in order to gain access to the source nor to convey the water to the place of use, nor does this approval eliminate the need for such other permits as may be required by this Division or any other agency in implementing your diversion.

This application will expire January 19, 1991, and it is expected that no diversion or use of the water will be done after that date unless another proposal has been made and approved.

Your contact with this office, should you need it, is with the Area Engineer, Robert Leake. The telephone number is (801)781-0770.

Sincerely,

Robert L. Morgan, P.E.  
State Engineer

RLM:rc

Encl.: Copy of Approved Temporary Application

# FILING FOR WATER IN THE STATE OF UTAH RECEIVED

DEC 11 1989

Rec. by \_\_\_\_\_  
Fee Rec. \_\_\_\_\_  
Receipt # \_\_\_\_\_  
Microfilmed \_\_\_\_\_  
Roll # \_\_\_\_\_

## APPLICATION TO APPROPRIATE WATER WATER RIGHTS

SALT LAKE

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of Title 73, Chapter 3 of the Utah Code Annotated (1953, as amended).

\* WATER RIGHT NO. 45-5381 \* APPLICATION NO. T64334

1. \* PRIORITY OF RIGHT: December 7, 1989 \* FILING DATE: December 7, 1989

### 2. OWNER INFORMATION

Name(s): TXO Production Corp. Attn: C. Curlee \* Interest: \_\_\_\_\_ %  
Address: 1800 Lincoln Center Bldg.  
City: Denver State: CO Zip Code: 80264  
Is the land owned by the applicant? Yes \_\_\_\_\_ No X  
(If "No", please explain in EXPLANATORY section.)

3. QUANTITY OF WATER: 0.1 cfs and/or \_\_\_\_\_ ac-ft

4. SOURCE: Green River \* DRAINAGE: \_\_\_\_\_  
which is tributary to Colorado River  
which is tributary to \_\_\_\_\_  
POINT(S) OF DIVERSION: \_\_\_\_\_ COUNTY: Uintah  
1500' east and 2000' south of northwest corner of Section 29-T6S-R21E or an  
alternate point of diversion at 1200' east and 1300' north of southwest corner  
of Section 32-T6S-R21E.

Description of Diverting Works: \_\_\_\_\_  
\* COMMON DESCRIPTION: \_\_\_\_\_

### 5. POINT(S) OF REDIVERSION

The water will be rediverted from Not Applicable at a point: \_\_\_\_\_  
\_\_\_\_\_  
Description of Rediverting Works: \_\_\_\_\_

### 6. POINT(S) OF RETURN

The amount of water consumed will be 0.1 cfs or \_\_\_\_\_ ac-ft  
The amount of water returned will be None cfs or \_\_\_\_\_ ac-ft  
The water will be returned to the natural stream/source at a point(s): \_\_\_\_\_

### 7. STORAGE

Reservoir Name: Not Applicable Storage Period: from \_\_\_\_\_ to \_\_\_\_\_  
Capacity: \_\_\_\_\_ ac-ft. Inundated Area: \_\_\_\_\_ acres  
Height of dam: \_\_\_\_\_ feet  
Legal description of inundated area by 40 acre tract(s): \_\_\_\_\_

\* These items are to be completed by the Division of Water Rights

Appropriate

8. List any other water right which will supplement this application none

9. NATURE AND PERIOD OF USE

Irrigation:	From _____ to _____
Stockwatering:	From _____ to _____
Domestic:	From _____ to _____
Municipal:	From _____ to _____
Mining:	From _____ to _____
Power:	From _____ to _____
Other:	From <u>12-15-89</u> to <u>12-15-90</u>

10. PURPOSE AND EXTENT OF USE

Irrigation: \_\_\_\_\_ acres. Sole supply of \_\_\_\_\_ acres.  
Stockwatering (number and kind): \_\_\_\_\_  
Domestic: \_\_\_\_\_ Families and/or \_\_\_\_\_ Persons  
Municipal (name): \_\_\_\_\_  
Mining: \_\_\_\_\_ Mining District in the \_\_\_\_\_ Mine  
Ores mined: \_\_\_\_\_  
Power: Plant name: \_\_\_\_\_ Type: \_\_\_\_\_ Capacity: \_\_\_\_\_  
Other (describe): for drilling oil & gas wells.

11. PLACE OF USE

Legal description of place of use by 40 acre tract(s): Proposed oil/gas wells in T6S-R21E:  
NE/NW and SE/SW of Section 28  
SE/SW and SE/NE of Section 29  
NW/NW of Section 32  
SW/NW of SW/SW of Section 27  
Exact location of wells may change.

12. EXPLANATORY

The following is set forth to define more clearly the full purpose of this application. (Use additional pages of same size if necessary): Land is federal and state, managed by the Vernal District BLM and the State of Utah. TXO Production Corp. is the operator of oil & gas leases on the subject lands.

\*\*\*\*\*  
The applicant(s) hereby acknowledges that he/she/they are a citizen(s) of the United States of America or intends to become such a citizen(s). The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purposes herein described. The undersigned hereby acknowledges that even though he/she/they may have been assisted in the preparation of the above-numbered application through the courtesy of the employees of the Division of Water Rights, all responsibility for the accuracy of the information contained herein, at the time of filing, rests with the applicant(s).

Charles K. Curlee  
Signature of Applicant(s)

Charles K. Curlee  
Environmental Manager



STATE ENGINEER'S ENDORSEMENT

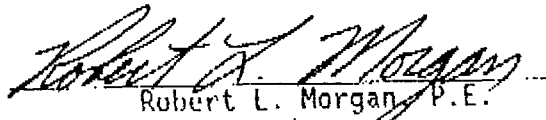
WATER RIGHT NUMBER: 45 - 5381

APPLICATION NO. T64334

1. December 7, 1989      Application received.
2. December 7, 1989      Application designated for APPROVAL by RWL and KLJ.
3. Comments:

Conditions:

This application is hereby APPROVED, dated January 19, 1990, subject to prior rights and this application will expire on January 19, 1991.

  
Robert L. Morgan, P.E.  
State Engineer



Norman H. Bangerter

Governor

Dee C. Hansen

Executive Director

Dianne R. Nielson, Ph.D.

Division Director

# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

355 West North Temple

3 Triad Center, Suite 350

Salt Lake City, Utah 84180-1203

801-538-5340

January 26, 1990

TXO Production Corporation  
1800 Lincoln Center Building  
Denver, Colorado 80264

Gentlemen:

Re: Soccer State #32-5 - NW NW Sec. 32, T. 6S, R. 21E - Uintah County, Utah  
844' FNL, 661' FWL

Approval to drill the referenced well is hereby granted in accordance with the Order of Cause No. 145-8 dated September 19, 1985, subject to the following stipulations:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water as required by Chapter 3, Title 73, Utah Code Annotated.
2. The reserve pit shall be lined with a synthetic liner of at least 12 mil thickness.
3. A drainage diversion shall be placed on uphill side of the location and pit.
4. The operator shall contact the U. S. Army Corps of Engineers and ensure that their regulatory requirements, if applicable, have been met regarding construction activities near the Green River.
5. The well shall not be completed for production from either the Green River or Wasatch formations in order to avoid conflict with the spacing order in Cause No. 127-3.

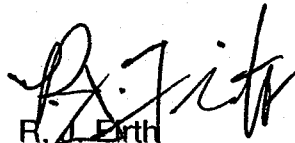
In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification within 24 hours after drilling operations commence.
2. Submittal of an Entity Action Form within five working days following spudding and whenever a change in operations or interests necessitates an entity status change.

3. Submittal of the Report of Water Encountered During Drilling, Form 7.
4. Prompt notification if it is necessary to plug and abandon the well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or Jim Thompson, Lead Inspector, (Home) 298-9318.
5. Compliance with the requirements of Rule R615-3-20, Gas Flaring or Venting, Oil and Gas Conservation General Rules.
6. Prior to commencement of the proposed drilling operations, plans for facilities for disposal of sanitary wastes at the drill site shall be submitted to the local health department. These drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 538-6121.
7. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-047-31888.

Sincerely,



R. J. Erth  
Associate Director, Oil & Gas

lcr  
Enclosures  
cc: Bureau of Land Management  
State Lands & Forestry  
D. R. Nielson  
J. L. Thompson  
WE14/7-8

DIVISION OF OIL, GAS AND MINING

API NO. 43-047-31888

SPUDDING INFORMATION

NAME OF COMPANY: TXO PRODUCTION CORPORATION

WELL NAME: SOCCER STATE 32-5

SECTION NWNW 32 TOWNSHIP 6S RANGE 21E COUNTY UINTAH

DRILLING CONTRACTOR CHANDLER DRILLING CORPORATION

RIG # 1

SPUDDED: DATE 4/18/90

TIME 3:30 p.m.

How ROTARY

DRILLING WILL COMMENCE

REPORTED BY CORY WEST

TELEPHONE # 303-861-4246

DATE 4/20/90 SIGNED TAS

# TXO

**TXO PRODUCTION CORP.**

1800 LINCOLN CENTER BUILDING  
DENVER, COLORADO 80264

TELEPHONE (303) 861-4246

RECEIVED  
APR 25 1990

DIVISION OF  
OIL, GAS & MINING

April 23, 1990

State of Utah  
Department of Natural Resources  
Division of Oil, Gas and Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

RE: Entity Action Form  
Soccer State #32-5  
NW NW Sec. 32-T6S-R21E  
Uintah County, Utah

Dear Sirs:

Please find attached the entity form for the Soccer State #32-5 spudded on 4-18-90. If you have any questions or if I can be of further assistance, please call me at (303) 861-4246.

Sincerely,

TXO PRODUCTION CORP.

*Cory West*

Cory West  
Petroleum Engineer

CW/lh

Enclosures

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
ENTITY ACTION FORM - FORM 6

OPERATOR TXO PRODUCTION CORP. (N1580)  
ADDRESS 1660 Lincoln St., Suite 1800  
Denver, CO 80264

OPERATOR ACC 10. 11

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	11081	43-047-31888	Soccer State #32-5	NW NW	32	6S	21E	Utah	4-18-90	4-23-90

WELL 1 COMMENTS: TXO Production Corp. spudded the Soccer State #32-5 located 844' FNL and 661' FWL of Sec. 32-T6S-R21E, Uintah County, Utah @ 3:30 a.m. on 4-18-90. 12 1/4" hole was drilled to 340'. 8-5/8" surface casing was set @ 338' and cemented w/ 225 sxs. Cement did circulate. The BOP was subsequently tested to 2000 psig successfully. Report of spud was made to Ms. Leisha Romero @ 9:00 a.m. 4-20-90. The Drilling Contractor is Chandler Drilling Corp. Rig #7.

State - Lease  
Field - Horseshoe Bend  
Unit - N/A

Proposed Zone - GRV  
(New Entity 11081 added 4-30-90) LCR

WELL 3 COMMENTS:

WELL 4 COMMENTS:

WELL 5 COMMENTS:

**RECEIVED**  
APR 26 1990

DIVISION OF  
OIL, GAS & MINING

Wynne Coy West  
Signature

Petroleum Engineer 4-23-90  
Title Date

Phone No. (303) 861-4246

ACTION CODES (See instructions on back of form)  
A - Establish new entity for new well (single well only)  
B - Add new well to existing entity (group or unit well)  
C - Re-assign well from one existing entity to another existing entity  
D - Re-assign well from one existing entity to a new entity  
E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/90)



COLUMBINE  
LOGGING, INC.

MAY 11 1990

OIL, GAS & MINING

TXO Production Corporation

## GEOLOGICAL REPORT

Soccer State No.32-5  
844' FNL & 661' FWL, NW NW  
Section 32, Township 6 South, Range 21 East  
Uintah County, Utah

Geologist: C.S. Chapman  
Lakewood, CO

## TABLE OF CONTENTS

	Page(s)
Resume	1 - 2
Summary and Conclusions	3
Formation Tops	4
Daily Drilling Chronology	5
Bit Record	6
Mud Record	7
Drilling Functions	8
Penetration Rate/Time Chart	9
Lithology	10 - 11



## RESUME

OPERATOR:	TXO Production Corporation
WELL NAME & NUMBER:	Soccer State 32-5
LOCATION:	844' FNL & 661' FWL, NW Section 32, Township 6 South, Range 21 East
AREA:	Horseshoe Bend
COUNTY:	Uintah
STATE:	Utah
ELEVATION:	4729' GL, 4741.6' KB
ENGINEER:	Wes Sutton and Randy Walck
GEOLOGIST:	Charles S. Chapman
SPUD DATE:	April 17, 1990
COMPLETION DATE:	April 24, 1990
HOLE SIZE:	7 7/8"
CASING:	8 5/8" surface @ 334'
CEMENTING COMPANY:	Dowell
CONTRACTOR:	Chandler Drilling
EQUIPMENT:	Rig #7
TOOLPUSHER:	Darrell Fladeland
DRILLERS:	D.P. Dingman, L.L. Dingman, K.K. Cox and H.C. Hall
DRAWWORKS:	N45 Brewster
DERRICK:	Lee C. Moore
PUMP:	National C-350
DRILL COLLARS:	6 1/4" x 4 1/2" H90
DRILL PIPE:	4" FH

RESUME cont'd.

DRILLING MUD COMPANY:	Drilling Fluids Associates, Inc.
MUD TYPE:	LSND 3050' to 3750', H2O surface to 3050'
MUD ENGINEER:	Nathan Parker
MUD LOGGING COMPANY:	Columbine Logging, Inc.
TYPE UNIT:	Hotwire and Chromatograph
ELECTRIC LOG COMPANY:	Halliburton
TYPE LOGS:	DIL from surface csg. to 3731' CDL/DSN from 2000' to 3731'
ENGINEER:	Tim Schmidt
TOTAL DEPTH:	3750' Driller, 3731' Logger
DRILLING TIME:	7 days
BOTTOM FORMATION:	Green River
WELL STATUS:	Plugged and Abandoned

### SUMMARY AND CONCLUSIONS

The Soccer State #32-5 was drilled to a total depth of 3750' to test the Uintah "B" zone of the Uintah formation for gas production. Although drilling breaks occurred from 3342' to 3346', 3406' to 3408', 3549' to 3562' and 3574' to 3576' and sandstone with some apparent visible porosity seemed to have developed, gas kicks of not more than 15 units above background gas suggested a poor chance for gas production in these zones.

Lower in the Uintah "B" from 3580' to 3630' and in the Upper Green River formation, oil sands were encountered with good oil stain, dull gold fluorescence and streaming cut. Drilling breaks through these two intervals suggested some porosity, but again gas shows were discouraging, being only 10 to 20 units above background gas.

Upon running electric logs the validity of the mudlog was confirmed. The density-neutron log showed no cross-over, indicating no potential gas production in the Uintah "B" zone of the Soccer State #32-5. It was then determined that running production casing on the Soccer State #32-5 served no economic purpose. The well was plugged and abandoned.

FORMATION TOPS

<u>Formation Tops</u>	<u>Samples</u> <u>Depth fr. K.B.</u>	<u>Electric Logs</u> <u>Depth fr. K.B.</u>	<u>Sub Sea</u> (+ or -)
Uintah "B"	3308'	3310'	+1431.6'
Green River	3670'	3670'	+1071.6'

MUD RECORD

1990 Date	Depth	Wt.	F. Vis	P. Vis	Yld	Gel Strnt	pH	Filtr	CK	PM Alka	Chlo	Cium	Sand%	Solid %/Wtr	Cum. Cost
4-17	Spud	8.4	27				7.5				600	100			420.00
4-18	140'	8.7	33	7	9	4/12	10.5	21.0	2/32	.5	500	50	tr	2.5/97.5	815.00
4-19	348'	H <sub>2</sub> O													880.00
4-20	1300'	8.4	27				10.7				500	40		100%	1195.00
4-21	1853'	8.4	27				11.0				500	50		100%	1595.00
4-22	3200'	8.9	36	7	9	5/10	10.5	8.2	1/32	1.0	500	40	tr	4.0/96	2570.00
4-23	3406'	8.9	42	14	12	6/14	10.0	7.2	1/32	.5	500	50	tr	4.0/96	2810.00
4-24	3750'	9.2	46	18	12	4/10	9.5	7.0	1/32	.35	500	60	tr	5.5/94.5	3735.00

# DAILY DRILLING CHRONOLOGY

<u>1990</u> <u>Date</u>	<u>Accum.</u> <u>Footage</u>	<u>Footage-</u> <u>24 Hours</u>	<u>Rig Activity</u>
4-17	0'	0'	Move on location, rig-up rathole
4-18	0'	44'	Spud @ 2:30 am, drlg 12 1/4" surf mix mud, work stuck pipe, trip for NB #2
4-19	348'	292'	Trip out, mix mud, ream, trip, stuck
4-20	650'	302'	Circ for surv, drlg, run csg & cmt, trip in, drl cmt, nipple up & drl cmt
4-21	1600'	950'	Drilling, survey
4-22	2560'	960'	Drilling, trip for survey tool
4-23	3408'	848'	Drilling, mud up @ 3050'
4-24	3750'	342'	Drilling & running electric logs

BIT RECORD

<u>No.</u>	<u>Make</u>	<u>Type</u>	<u>Size</u>	<u>In</u>	<u>Out</u>	<u>Footage</u>	<u>Hours</u>
1	Reed	Y-13	12 1/4"	12'	142'	130'	6 1/2
2	Hughes	OSC3	12 1/4"	142'	348'	206'	10
3	SEC	S-33-F	7 7/8"	348'	1520'	1172'	21
4	Reed	HP53A	7 7/8"	1520'	3750'	2230'	68 1/2

DRILLING FUNCTIONS

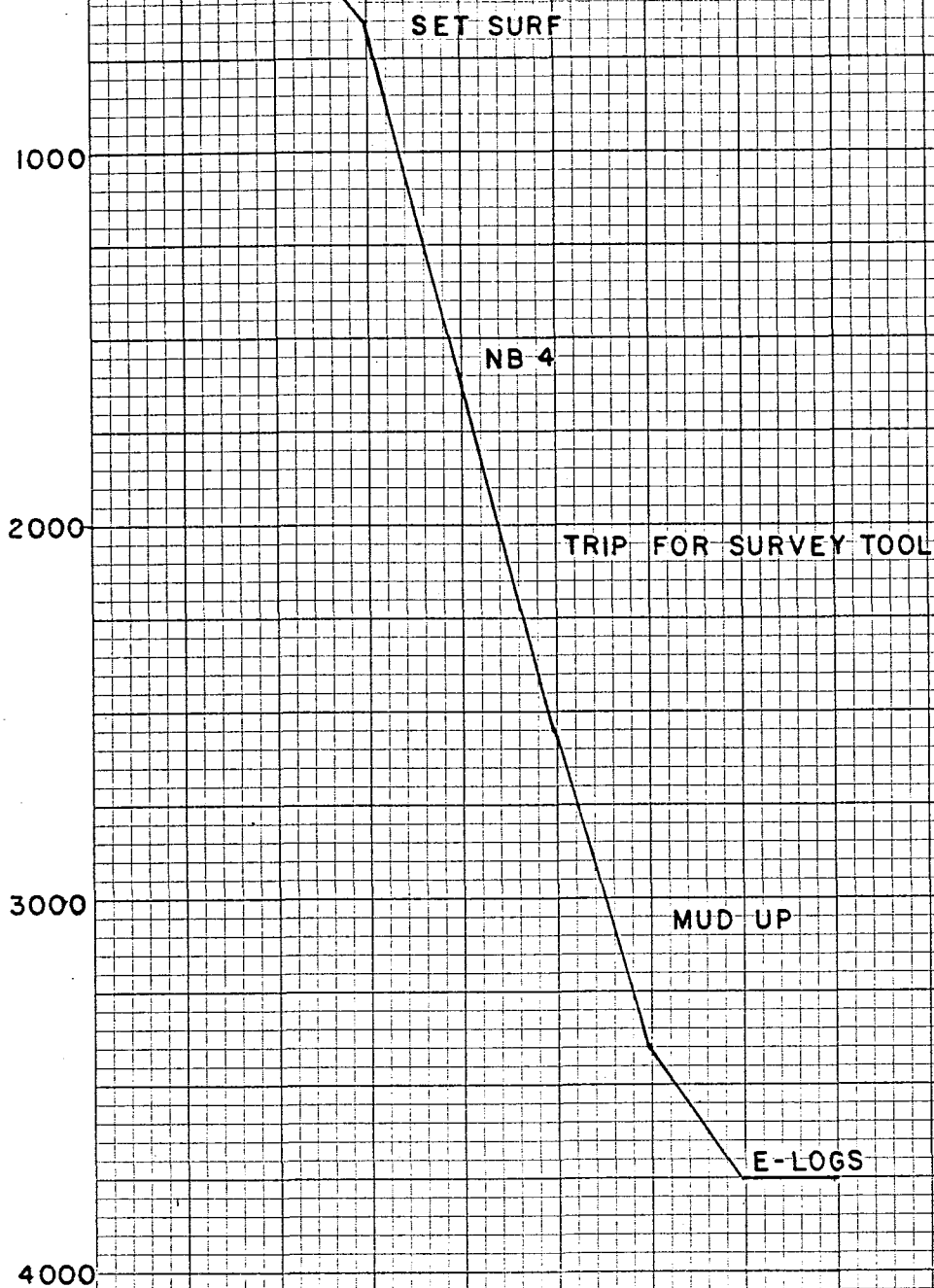
<u>Depth</u>	<u>W.O.B.</u>	<u>R.P.M.</u>	<u>P.P.</u>	<u>Deviation</u>
44'	a11	120	200	
100'	25000	100	600	1/2 deg.
308'	25000	100	600	1/2 deg.
650'	30000	80	650	
926'	30000	70	600	3/4 deg.
1489'	30000	70	600	1/4 deg.
2088'	30/35000	70	700	1/4 deg.
3408'	35000	70	700	
3750'	38000	70	900	1 deg.



DAYS

NATIONAL  
12-280  
Made in U. S. A.

DEPTH



# LITHOLOGY

2800' - 2900' Sh red brn, gy, grn, brn, mot, n-sl calc, dul erthy, wxy ip, sb fis-sb blk, sft w/mnr intbd SS wh, gy, vf-fg, sb ang-sb rd, mod srt, calc-cly cmt, arg, fri

2900' - 2950' SS wh lt gy, lt grn, f-mg, sm crs gr, cly-sl calc cmt, sb ang-sb rd, p srt, fri-cons, w/sm cong, clr-frstd, fg-vcg, ang-sb rd, w/mnr cht clr, lt grn, gy, trns, ang & intbd Sh gen aa

2950' - 2990' Sh aa

2990' - 3010' SS lt grn, fg, cong, clr, grn, wh, frstd, f-cg, ang-rd w/cht, gy, trns

3010' - 3100' SS wh, gy lt grn, s & p ip, vf-mg, sb ang-sb rd, calc-cly cmt, p srt, cons, n-p vis por w/mnr orng mnrls & intbd Sh gy, grn, lt grn brn, n-sl calc, slty ip, dul, erthy-wxy, sb fis, plty, frm

3100' - 3300' SS wh, lt gy, s & p ip, vf-fg, lt brn, vf-fg, sb ang-sb rd, mod srt, calc-cly cmt, fri-lsely cons n-p vis por & intbd Sh, gy, red brn, mot, n-calc, mica & slty ip, sb fis-sb blk, sft-frm, & mnr intbd Ls lt brn, buf, micxl, arg, blk, frm

3300' - 3580' SS wh, fg, sb ang-sb rd, w srt, ang, mica, calc-cly cmt, fri-lsely cons, n-p vis por & intbd Sh gy grn, yel brn, mnr red brn, calc-n calc, dul erthy-wxy, sb fis-sb blk, sft-frm

3580' - 3630' SS wh, lt gy, lt brn, vf-fg, sb rd-sb ang, calc-cly cmt, mod-w srt, fri-lsely cons, p-fr vis por w/abndt-tr oil stn, 20%-tr dul gold flor, n-v sl strmg cut

3630' - 3670' SS gen aa, n oil stn, n.f.o.c., vf-fg, grdg to Slst

3670' - 3700' Ls tan, buf, mic xtln, blk, dns, hd, Sh brn, lt brn, tan, gy, grn, sl calc, sil, sb blk, frm, w/intbd cht, trns, lt gy, buf, sb blk, ang, w/occ blk incl

3700' - 3740' SS wh, lt gy, gy, vf-fg, sb ang-sb rd, calc-cly cmt, mod srt, cons, n vis por w/intbd Sh gy, lt gy, grn, brn, dul-wxy, calc, mica & pyr ip, sb fis-sb blk, frm

LITHOLOGY cont'd.

3740' - 3750'      SS wh, lt brn, fg, gen aa w/mod-abndt oil stn.  
                         30% dul gld flor. gd fst strmg cut. p-fr vis por

3750'              Sh gen aa, calc, v sil ip, w/cht, trns1 w/blk  
Bottoms up        mnrl incl

## PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

☒ Well File Soccer State #32-5☐ Suspense☐ Other(Location) Sec 32 Twp 45 Rng 21E(API No.) 43-047-31888

(Return Date) \_\_\_\_\_

(To - Initials) \_\_\_\_\_

1. Date of Phone Call: 1-24-91Time: 3:10 pm2. DOGM Employee (name) Debra(Initiated Call ☒)

Talked to:

Name Frank(Initiated Call ☐) - Phone No. 307-587-4961of (Company/Organization) in regulatoryTXO Production Corp.3. Topic of Conversation: Carol inspected Well 15 PA'dNeed WCR - said about a month to  
find info

4. Highlights of Conversation: \_\_\_\_\_

SUBMIT IN DUPLICATE\*  
(See other instructions  
on reverse side)

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

# WELL COMPLETION OR RECOMPLETION REPORT AND LOG\*

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input checked="" type="checkbox"/> Other <u>JAN 30 1991</u>										5. LEASE DESIGNATION AND SERIAL NO. 87144											
b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> Other _____										6. IF INDIAN, ALLOTTEE OR TRIBE NAME ---											
2. NAME OF OPERATOR <u>Marathon Oil Company TXO Prod. Corp.</u> <i>Name change not approved as of 2/13/91</i>										7. UNIT AGREEMENT NAME ---											
3. ADDRESS OF OPERATOR P. O. Box 2690, Cody, WY 82414 (307) 587-4961										8. FARM OR LEASE NAME Soccer State											
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 844' FNL and 661' FWL At top prod. interval reported below At total depth										9. WELL NO. 32-5											
14. PERMIT NO. <u>43-047-31888</u> DATE ISSUED <u>PA</u>										10. FIELD AND POOL, OR WILDCAT Horseshoe Bend											
15. DATE SPUDDED <u>4/18/90</u> 16. DATE T.D. REACHED <u>4/24/90</u> 17. DATE COMPL. (Ready to prod.) <u>4/24/90</u> 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* <u>4741' KB</u> 19. ELEV. CASINGHEAD <u>4729' GR</u>										11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec. 32, T6S, R21E											
20. TOTAL DEPTH, MD & TVD <u>3731' KB</u> 21. PLUG, BACK T.D., MD & TVD <u>Surface</u> 22. IF MULTIPLE COMPL., HOW MANY* <u>---</u> 23. INTERVALS DRILLED BY <u>0</u> ROTARY TOOLS <u>3731'</u> CABLE TOOLS <u>N/A</u>										12. COUNTY OR PARISH Uintah											
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* Plugged and Abandoned										13. STATE Utah											
26. TYPE ELECTRIC AND OTHER LOGS RUN DIL-SP-GR, FDC-CNL, GR-CAL <u>S-30-90</u>										25. WAS DIRECTIONAL SURVEY MADE No											
27. WAS WELL CORED No																					
28. CASING RECORD (Report all strings set in well)																					
CASING SIZE		WEIGHT, LB./FT.		DEPTH SET (MD)		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED											
8-5/8"		24#		334'		12-1/4"		230 Sacks		None											
						8-3/4" Open hole to 3731'															
29. LINER RECORD																					
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	30. TUBING RECORD																
---	---	---	---	---	SIZE	DEPTH SET (MD)	PACKER SET (MD)														
					---	---	---														
31. PERFORATION RECORD (Interval, size and number)						32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.															
Plugged & Abandoned						<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>DEPTH INTERVAL (MD)</th> <th>AMOUNT AND KIND OF MATERIAL USED</th> </tr> <tr><td>---</td><td>---</td></tr> <tr><td>---</td><td>---</td></tr> <tr><td>---</td><td>---</td></tr> <tr><td>---</td><td>---</td></tr> </table>						DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED	---	---	---	---	---	---	---	---
DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED																				
---	---																				
---	---																				
---	---																				
---	---																				
33.* PRODUCTION																					
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)						WELL STATUS (Producing or shut-in)													
---		Plugged & Abandoned						P&A'd													
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO														
---	---	---	---	---	---	---	---														
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)															
---	---	---	---	---	---	---															
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)								TEST WITNESSED BY													
See Reverse Side for Plug Placement								---													
35. LIST OF ATTACHMENTS																					
Dist: SUDOGM-Orig. + 2: BLM-Vernal-2, WRF, FMK, WTR-5, SPO, Title & Contracts (Houston)																					
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records																					
SIGNED <u>R.P. Mealon by FMK</u>				TITLE <u>Regulatory Coordinator</u>				DATE <u>1/28/91</u>													

\*(See Instructions and Spaces for Additional Data on Reverse Side)

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 19:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

**Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29: "Sacks Cement":** Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

**Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF: CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES			38. GEOLOGIC MARKERS		KB DATUM	
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TOP
					Estimated	4741'
			<u>Plug Placement</u>  On April 24, 1990 at 6:30 p.m. a State Representative was contacted of the plugging procedure.  <u>Final Plug Placement</u>  Plug #1 - 3320'-3220' - 50 Sacks Plug #2 - 390'-290' - 35 Sacks Plug #3 - 20'-Surface - 20 Sacks  Installed a dry hole marker.	Uintah Uintah 'B' Green River TD	Surface 3300' 3650' 3700'	1441' 1091' 1041'